Abstracts

Analysis of Coupling Between a Curved FSS and an Enclosed Planar Dipole Array

E.A. Parker, B. Philips and R.J. Langley. "Analysis of Coupling Between a Curved FSS and an Enclosed Planar Dipole Array." 1995 Microwave and Guided Wave Letters 5.10 (Oct. 1995 [MGWL]): 338-340.

Interaction between an antenna and an enclosing FSS is investigated using the Pocklington equation approach from an earlier study of arbitrarily curved free-standing arrays of dipoles. Part of such a collection of elements can be regarded as a receiving antenna, and the rest can be distributed around it to form a dichroic enclosure. It is then possible to analyse this structure with and without mutual coupling between the two sets of dipoles, to give an indication of antenna-radome coupling in a simple case.

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